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Optimized for Kubernetes, Quarkus
is designed to help you create Java

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applications that are cloud first, container native, and serverless capable. With this cookbook, authors Alex Soto Bueno and Jason Porter from Red Hat provide detailed solutions for installing, interacting with, and using Quarkus

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in the development and production of microservices. The recipes in this book show midlevel to senior developers familiar with Java enterprise application development how to get started with Quarkus quickly. You'll become familiar with

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how Quarkus works within the wider Java ecosystem and discover ways to adapt this framework to your particular needs. You'll learn how to: Shorten the development cycle by enabling live reloading in dev mode Connect to and

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communicate with Kafka Develop
with the reactive programming
model Easily add fault tolerance to
your services Build your application
as a Kubernetes-ready container
Ease development with OpenAPI
and test a native Quarkus

Access Free Implementing With Red Hat Jboss Brms Directions Training application

The comprehensive Wrox guide for creating Java web applications for the enterprise This guide shows Java software developers and software engineers how to build complex web applications in an

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enterprise environment. You'll begin with an introduction to the Java Enterprise Edition and the basic web application, then set up a development application server environment, learn about the tools used in the development process,

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and explore numerous Java technologies and practices. The book covers industry-standard tools and technologies, specific technologies, and underlying programming concepts. Java is an essential programming language

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used worldwide for both Android app development and enterprise-level corporate solutions As a step-by-step guide or a general reference, this book provides an all-in-one Java development solution Explains Java Enterprise Edition 7

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and the basic web application, how to set up a development application server environment, which tools are needed during the development process, and how to apply various Java technologies Covers new language features in Java 8, such

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as Lambda Expressions, and the new Java 8 Date & Time API introduced as part of JSR 310, replacing the legacy Date and Calendar APIs Demonstrates the new, fully-duplex WebSocket web connection technology and its

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support in Java EE 7, allowing the reader to create rich, truly interactive web applications that can push updated data to the client automatically Instructs the reader in the configuration and use of Log4j 2.0, Spring Framework 4 (including

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Spring Web MVC), Hibernate
Validator, RabbitMQ, Hibernate
ORM, Spring Data, Hibernate
Search, and Spring Security Covers
application logging, JSR 340
Servlet API 3.1, JSR 245
JavaServer Pages (JSP) 2.3

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(including custom tag libraries),
JSR 341 Expression Language 3.0,
JSR 356 WebSocket API 1.0, JSR
303/349 Bean Validation 1.1, JSR
317/338 Java Persistence API
(JPA) 2.1, full-text searching with
JPA, RESTful and SOAP web

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services, Advanced Message Queuing Protocol (AMQP), and OAuth Professional Java for Web Applications is the complete Wrox guide for software developers who are familiar with Java and who are ready to build high-level enterprise

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Java web applications.

The leading Fedora book-over a quarter of a million copies sold of previous editions! What better way to learn Fedora 11 than with the leading Fedora book from the best-selling Linux author, Christopher

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Negus with Eric Foster Johnson?
Whether you're new to Linux or an
advanced user, this power-packed
guide is loaded with what you need.
Install, run, and manage the latest
version of Fedora and Red Hat
Enterprise Linux-then polish your

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system administration skills and get up to speed on the very latest in networking, desktop, and server enhancements. Master the Linux shell, file system, and text editor; how to set up users and automate system tasks; and much more in

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over a thousand pages of step-by-step instruction. Boot the full DVD of Fedora 11, including almost all binary code packages, or do a Live Install of the CD for rescuing, troubleshooting, or installing Fedora. Fedora is a free, open

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source Linux operating system sponsored by Red Hat as an open source community project; the technological innovations from the Fedora Project are then implemented in Red Hat's commercial offering, Red Hat

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Enterprise Linux Covers step-by-step instructions for making Linux installation simple and painless; how to take advantage of the desktop interface (including coverage of AIGLX); and how to use the Linux shell, file system, and

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text editor Also covers setting up users; automating system tasks; backing up and restoring files; dealing with the latest security issues and threats; using and customizing the desktop menus, icons, window manager, and xterm;

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and how to create and publish formatted documents with Linux applications The DVD and CD that come with the book include Fedora Linux 11 and an official Fedora 11 LiveCD (bootable and installable) This is the book you need to

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succeed with Fedora 11 and Red Hat Enterprise Linux. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

A standard tutorial-based approach to using OpenShift and deploying

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custom or pre-built web applications to the OpenShift Online cloud. This book is for software developers and DevOps alike who are interested in learning how to use the OpenShift Platform-as-a-Service for developing and

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deploying applications, how the environment works on the back end, and how to deploy their very own open source Platform-as-a-Service based on the upstream OpenShift Origin project.

A Practical Approach

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Cloud Deployments Made Easy
Reusable Elements for Designing
Cloud-Native Applications
WildFly: New Features
Configuring, Using, and Maintaining
a Complete Programming
Environment

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JBoss AS 7 Development

Get an in-depth tour of
OpenShift, the container-
based software deployment
and management platform
from Red Hat that provides a
secure multi-tenant

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environment for the enterprise. This practical guide describes in detail how OpenShift, building on Kubernetes, enables you to automate the way you create, ship, and run

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applications in a containerized environment. Author Graham Dumpleton provides the knowledge you need to make the best use of the OpenShift container platform to deploy not only

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your cloud-native applications, but also more traditional stateful applications. Developers and administrators will learn how to run, access, and manage containers in OpenShift,

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including how to orchestrate
them at scale. Build
application container images
from source and deploy
them Implement and extend
application image builders
Use incremental and chained

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builds to accelerate build
times Automate builds by
using a webhook to link
OpenShift to a Git repository
Add configuration and
secrets to the container as
project resources Make an

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application visible outside
the OpenShift cluster
Manage persistent storage
inside an OpenShift
container Monitor application
health and manage the
application lifecycle This

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book is a perfect follow-up to
OpenShift for Developers: A
Guide for Impatient
Beginners (O'Reilly).
Does the Camel
Development with Red Hat
JBoss Fuse task fit the

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client's priorities? How do you determine the key elements that affect Camel Development with Red Hat JBoss Fuse workforce satisfaction? how are these elements determined for

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different workforce groups and segments? How do you use Camel Development with Red Hat JBoss Fuse data and information to support organizational decision making and innovation?

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Have all basic functions of Camel Development with Red Hat JBoss Fuse been defined? Is the scope of Camel Development with Red Hat JBoss Fuse defined? Defining, designing, creating,

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and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are

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talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two,

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it needs to be designed by someone with a complex enough perspective to ask the right questions.

Someone capable of asking the right questions and step back and say, 'What are we

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really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager,

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consultant, (Vice-)President,
CxO etc... - they are the
people who rule the future.
They are the person who
asks the right questions to
make Camel Development
with Red Hat JBoss Fuse

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investments work better.
This Camel Development
with Red Hat JBoss Fuse All-
Inclusive Self-Assessment
enables You to be that
person. All the tools you
need to an in-depth Camel

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Development with Red Hat
JBoss Fuse Self-Assessment.
Featuring 1271 new and
updated case-based
questions, organized into
seven core areas of process
design, this Self-Assessment

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will help you identify areas in which Camel Development with Red Hat JBoss Fuse improvements can be made. In using the questions you will be better able to: -
diagnose Camel

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Development with Red Hat
JBoss Fuse projects,
initiatives, organizations,
businesses and processes
using accepted diagnostic
standards and practices -
implement evidence-based

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best practice strategies
aligned with overall goals -
integrate recent advances in
Camel Development with
Red Hat JBoss Fuse and
process design strategies
into practice according to

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best practice guidelines
Using a Self-Assessment tool
known as the Camel
Development with Red Hat
JBoss Fuse Scorecard, you
will develop a clear picture
of which Camel Development

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with Red Hat JBoss Fuse
areas need attention. Your
purchase includes access
details to the Camel
Development with Red Hat
JBoss Fuse self-assessment
dashboard download which

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gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

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Learn how to code, package, deploy, and test functional Enterprise JavaBeans with the latest edition of this bestselling guide. Written by the developers of JBoss EJB 3.1, this book not only brings

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you up to speed on each component type and container service in this implementation, it also provides a workbook with several hands-on examples to help you gain immediate

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experience with these components. With version 3.1, EJB's server-side component model for building distributed business applications is simpler than ever. But it's still a complex

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technology that requires study and lots of practice to master. Enterprise JavaBeans 3.1 is the most complete reference on this specification. You'll find a straightforward, no-nonsense

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explanation of the underlying technology, including Java classes and interfaces, the component model, and the runtime behavior of EJB. Develop your first EJBs with a hands-

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on walkthrough of EJB 3.1
concepts Learn how to
encapsulate business logic
with Session Beans and
Message-Driven Beans
Discover how to handle
persistence through Entity

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Beans, the EntityManager,
and the Java Persistence API
Understand EJB's container
services such as dependency
injection, concurrency, and
interceptors Integrate EJB
with other technologies in

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Training

the Java Enterprise Edition
platform Use examples with
either the JBossAS, OpenEJB,
or GlassFish v3 EJB

Containers

Create modular scalable
enterprise-grade applications

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with JBoss Enterprise
Application Platform 7 About
This Book Leverage the
power of JBoss EAP 7 along
with Java EE 7 to create
professional enterprise grade
applications. Get you

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applications cloud ready and
make them highly scalable
using this advanced guide.
Become a pro Java
Developer and move ahead
of the crowd with this
advanced practical guide.

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Who This Book Is For The
ideal target audience for this
book is Java System
Administrators who already
have some experience with
JBoss EAP and who now want
explore in depth creating

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Enterprise grade apps with
the latest JBoss EAP version.

What You Will Learn

Configure services using the
Command Line Interface

Deliver fault tolerant server
configurations Harden the

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application server with
advanced techniques Expand
the application server's
horizon with tools such as
like Docker/OpenShift Create
enterprise ready
configurations using

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clustering techniques.

Deliver advanced security solutions and learn how to troubleshoot common network/performance issues

In Detail The JBoss
Enterprise Application

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Platform (EAP) has been one of the most popular tools for Java developers to create modular, cloud-ready, and modern applications. It has achieved a reputation for architectural excellence and

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technical savvy, making it a solid and efficient environment for delivering your applications. The book will first introduce application server configuration and the

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management instruments that can be used to control the application server. Next, the focus will shift to enterprise solutions such as clustering, load balancing, and data caching; this will be

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the core of the book. We will also discuss services provided by the application server, such as database connectivity and logging. We focus on real-world example configurations and how to

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avoid common mistakes.

Finally, we will implement the knowledge gained so far in terms of Docker containers and cloud availability using RedHat's OpenShift. Style and

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approach If you are a Java developer who wants to level-up to modern day Java web development with the latest Java EE 7 and JBoss EAP 7, this book is the ideal solution for you. It addresses (in a

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clear and simple way) proof-of-concept scenarios such as clustering and cloud and container configurations, and explains how to solve common issues.

Camel Development with

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Training

Red Hat Jboss Fuse Standard
Requirements

Hibernate Search in Action

Deliver continuous business
value through people,
processes, and technology

Implementing the IBM

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Training

General Parallel File System
(GPFS) in a Cross Platform
Environment

Getting Started with Red Hat
Enterprise Virtualization

OpenShift for Developers

A practical guide to making the best use

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**of the OpenShift container platform
based on the real-life experiences,
practices, and culture within Red Hat
Open Innovation Labs Key
Features** Learn how modern software
companies deliver business outcomes
that matter by focusing on DevOps
culture and practices Adapt Open

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**Innovation Labs culture and
foundational practices from the Open
Practice Library Implement a metrics-
driven approach to application,
platform, and product, understanding
what to measure and how to learn and
pivot**
**Book Description DevOps Culture
and Practice with OpenShift features**

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many different real-world practices - some people-related, some process-related, some technology-related - to facilitate successful DevOps, and in turn OpenShift, adoption within your organization. It introduces many DevOps concepts and tools to connect culture and practice through a

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continuous loop of discovery, pivots, and delivery underpinned by a foundation of collaboration and software engineering. Containers and container-centric application lifecycle management are now an industry standard, and OpenShift has a leading position in a flourishing market of

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enterprise Kubernetes-based product offerings. DevOps Culture and Practice with OpenShift provides a roadmap for building empowered product teams within your organization. This guide brings together lean, agile, design thinking, DevOps, culture, facilitation, and hands-on technical enablement all

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in one book. Through a combination of real-world stories, a practical case study, facilitation guides, and technical implementation details, DevOps Culture and Practice with OpenShift provides tools and techniques to build a DevOps culture within your organization on Red Hat's OpenShift Container Platform.

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What you will learn
Implement successful DevOps practices and in turn
OpenShift within your organization
Deal with segregation of duties in a
continuous delivery world
Understand automation and its significance through
an application-centric view
Manage continuous deployment strategies, such

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as A/B, rolling, canary, and blue-greenLeverage OpenShift's Jenkins capability to execute continuous integration pipelinesManage and separate configuration from static runtime softwareMaster communication and collaboration enabling delivery of superior software

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products at scale through continuous discovery and continuous deliveryWho this book is for This book is for anyone with an interest in DevOps practices with OpenShift or other Kubernetes platforms. This DevOps book gives software architects, developers, and infra-ops engineers a practical

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understanding of OpenShift, how to use it efficiently for the effective deployment of application architectures, and how to collaborate with users and stakeholders to deliver business-impacting outcomes. For many organizations, a big part of DevOps' appeal is software automation using infrastructure-as-code techniques.

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This book presents developers, architects, and infra-ops engineers with a more practical option. You'll learn how a container-centric approach from OpenShift, Red Hat's cloud-based PaaS, can help your team deliver quality software through a self-service view of IT infrastructure. Three

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OpenShift experts at Red Hat explain how to configure Docker application containers and the Kubernetes cluster manager with OpenShift's developer- and operational-centric tools. Discover how this infrastructure-agnostic container management platform can help companies navigate the murky

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area where infrastructure-as-code ends and application automation begins. Get an application-centric view of automation—and understand why it's important Learn patterns and practical examples for managing continuous deployments such as rolling, A/B, blue-green, and canary Implement

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**continuous integration pipelines with
OpenShift's Jenkins capability Explore
mechanisms for separating and
managing configuration from static
runtime software Learn how to use and
customize OpenShift's source-to-image
capability Delve into management and
operational considerations when**

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**working with OpenShift-based
application workloads Install a self-
contained local version of the OpenShift
environment on your computer
What is your application lifecycle
management? If there are fees
(monetary or otherwise) for current
services, who pays them? How does**

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usage of consumable parts and energy compare with similar projects? Are requirements abstract enough and can they change within limits? Are the application developers involved during the initial design and throughout the SDLC process? Defining, designing, creating, and implementing a process to

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solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the

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two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do

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just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Camel Development With Red Hat JBoss Fuse investments work better. This Camel Development With

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Red Hat JBoss Fuse All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Camel Development With Red Hat JBoss Fuse Self-Assessment. Featuring 984 new and updated case-based questions, organized into seven core areas of process design, this Self-

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Assessment will help you identify areas in which Camel Development With Red Hat JBoss Fuse improvements can be made. In using the questions you will be better able to: - diagnose Camel Development With Red Hat JBoss Fuse projects, initiatives, organizations, businesses and processes using accepted

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**diagnostic standards and practices -
implement evidence-based best practice
strategies aligned with overall goals -
integrate recent advances in Camel
Development With Red Hat JBoss Fuse
and process design strategies into
practice according to best practice
guidelines Using a Self-Assessment tool**

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known as the Camel Development With Red Hat JBoss Fuse Scorecard, you will develop a clear picture of which Camel Development With Red Hat JBoss Fuse areas need attention. Your purchase includes access details to the Camel Development With Red Hat JBoss Fuse self-assessment dashboard download

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which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which

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**criteria correspond to the criteria in... -
The Self-Assessment Excel Dashboard -
Example pre-filled Self-Assessment
Excel Dashboard to get familiar with
results generation - In-depth and
specific Camel Development With Red
Hat JBoss Fuse Checklists - Project
management checklists and templates to**

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**assist with implementation INCLUDES
LIFETIME SELF ASSESSMENT
UPDATES Every self assessment comes
with Lifetime Updates and Lifetime
Free Updated Books. Lifetime Updates
is an industry-first feature which allows
you to receive verified self assessment
updates, ensuring you always have the**

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most accurate information at your fingertips.

**Summary Enterprise Java
Microservices is an example-rich
tutorial that shows how to design and
manage large-scale Java applications as
a collection of microservices. Purchase
of the print book includes a free eBook**

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in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Large applications are easier to develop and maintain when you build them from small, simple components. Java developers now enjoy a wide range of tools that support microservices application development,

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including right-sized app servers, open source frameworks, and well-defined patterns. Best of all, you can build microservices applications using your existing Java skills. About the Book Enterprise Java Microservices teaches you to design and build JVM-based microservices applications. You'll start

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by learning how microservices designs compare to traditional Java EE applications. Always practical, author Ken Finnigan introduces big-picture concepts along with the tools and techniques you'll need to implement them. You'll discover ecosystem components like Netflix Hystrix for

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**fault tolerance and master the Just
enough Application Server (JeAS)
approach. To ensure smooth operations,
you'll also examine monitoring,
security, testing, and deploying to the
cloud. What's inside The microservices
mental model Cloud-native
development Strategies for fault**

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**tolerance and monitoring Securing your
finished applications About the Reader
This book is for Java developers
familiar with Java EE. About the
Author Ken Finnigan leads the
Thorntail project at Red Hat, which
seeks to make developing microservices
for the cloud with Java and Java EE as**

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easy as possible. Table of Contents

PART 1 MICROSERVICES BASICS

Enterprise Java microservices

Developing a simple RESTful

microservice Just enough Application

Server for microservices Microservices

testing Cloud native development PART

2 - IMPLEMENTING ENTERPRISE

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**JAVA MICROSERVICES Consuming
microservices Discovering microservices
for consumption Strategies for fault
tolerance and monitoring Securing a
microservice Architecting a
microservice hybrid Data streaming
with Apache Kafka
Camel Development with Red Hat Jboss**

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Fuse a Complete Guide - 2019 Edition

DevOps with OpenShift

JBoss in Action

JRuby Cookbook

JBoss: Developer's Guide

JBoss AS 5 Development

Applications in enterprises need to
communicate, most commonly

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done by messaging. Apache ActiveMQ is an open-source implementation of the Java Message Service (JMS), which provides messaging in Java applications. ActiveMQ in Action is a thorough, practical guide to

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implementing message-oriented systems using ActiveMQ and Java. Co-authored by one of the leading ActiveMQ developers, Bruce Snyder, the book starts with the anatomy of a core Java message, then moves quickly through

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fundamentals including data persistence, authentication and authorization. Later chapters cover advanced features such as configuration and performance tuning, illustrating each concept with a running real-world stock

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portfolio application. Readers will learn to integrate ActiveMQ with Apache Geronimo and JBoss, and tie into both Java and non-Java technologies including AJAX, .NET, C++, Ruby, and the Spring framework. Purchase of the print

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book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

With the increasing demand for distributed systems for Java applications, WildFly offers a robust

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platform on which to deploy and manage your services. As a matter of fact, WildFly 9 is a fully certified Java EE 7 platform and provides remote management tools, such as the redesigned Admin Console and the new and powerful Command

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Line Interface (CLI). With practical and accessible material, you will begin by learning to set up your WildFly runtime environment, and progress to selecting appropriate operational models, managing subsystems, and conquering the

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CLI. You will then walk through the different balancing and clustering techniques, simultaneously learning about role-based access control and then developing applications targeting WildFly and Docker. Two leading Linux developers show

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how to choose the best tools for your specific needs and integrate them into a complete development environment that maximizes your effectiveness in any project, no matter how large or complex. Includes research, requirements,

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coding, debugging, deployment,
maintenance and beyond, choosing
and implementing editors,
compilers, assemblers, debuggers,
version control systems, utilities,
using Linux Standard Base to
deliver applications that run reliably

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on a wide range of Linux systems,
comparing Java development
options for Linux platforms, using
Linux in cross-platform and
embedded development
environments.

Develop Java enterprise

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applications to meet the emerging digital standards using Java EE 7
About This Book Build modern Java EE web applications that insert, update, retrieve, and delete customer data with up-to-date methodologies Delve into the

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essential JavaScript programming language and become proficient with front-end technologies that integrate with the Java platform Learn about JavaServer Faces, its lifecycle, and custom tags, and build exciting digital applications

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with the aid of handpicked, real-world examples Who This Book Is For If you are a professional Java engineer and want to develop well-rounded and strong Java Web Development skills, then this book is for you. What You Will Learn

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Understand and apply updated
JavaServer Faces key features
including HTML5 support, resource
library constructs, and pass through
attributes Build web applications
that conform to digital standards
and governance, and leverage the

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Java EE 7 web architecture

Construct modern JSF Forms that
apply validation, add AJAX for
immediate validation, and write
your own validators Augment a

traditional web application with JSF
2.2 Flow Beans and Flow Scope

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Beans Program single page applications including AngularJS, and design Java RESTful back-end services for integration Utilize modern web frameworks such as Bootstrap and Foundation in your JSF applications Create your own

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JSF custom components that generate reusable content for your stakeholders and their businesses
In Detail Digital Java EE 7 presents you with an opportunity to master writing great enterprise web software using the Java EE 7

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platform with the modern approach to digital service standards. You will first learn about the lifecycle and phases of JavaServer Faces, become completely proficient with different validation models and schemes, and then find out exactly

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how to apply AJAX validations and requests. Next, you will touch base with JSF in order to understand how relevant CDI scopes work. Later, you'll discover how to add finesse and pizzazz to your digital work in order to improve the design

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of your e-commerce application. Finally, you will deep dive into AngularJS development in order to keep pace with other popular choices, such as Backbone and Ember JS. By the end of this thorough guide, you'll have

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polished your skills on the Digital Java EE 7 platform and be able to creat exiting web application. Style and approach This book takes a step-by-step and detailed approach, coaching you through real-world scenarios. The book's

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style is designed for those who enjoy a thorough educational approach.

Professional Java for Web Applications

Implementing OpenShift

Cloud Computing for Enterprise

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Architectures

Mastering JBoss Enterprise

Application Platform 7

Kubernetes Operators

Building a Red Hat OpenShift

Environment on IBM Z

Writing a Portable Extension; What is a

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*portable extension?; What is the CDI
container lifecycle?; BeanManager;
Injection into non-container managed
instances; Registering a bean; Replacing
annotations on a type via an extension;
Summary; Book Store - CDI Services;
Overview of the application; Adding*

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interceptors for our services; Securing methods with an interceptor; Providing a transaction with an interceptor; Creating CDI services; Summary; Book Store - User Interfaces; REST services; User interface for customers; Administration interface; Summary; Index.

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This book is an easy-to-follow guide full of hands-on examples of administration tasks and valuable information about security. Each topic is explained and placed in context, and for the more inquisitive readers, there are more in-depth details of the concepts used. If you

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*are an application server administrator
or a Java developer with some
experience with previous versions of
JBoss AS and you want to familiarize
yourself with WildFly, then this book is
ideal for you.*

This IBM® Redbooks® publication

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introduces OSGi applications and Java™ Persistence API (JPA) 2.0 technology and describes their implementation in the Feature Pack for OSGi Applications and JPA 2.0 for WebSphere Application Server 7.0. The book will help you understand the

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position of these new technologies as well as how to use them for Java enterprise development in a WebSphere Application Server environment. Though synergetic, both technologies can be used in isolation. This publication is structured to appeal to administrators, application

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developers, and all those individuals using the technologies together or independently. The book is split into two parts. Part 1, "Architecture and overview" on page 1 introduces OSGi applications and JPA 2.0 and describes how to set up a development and test

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environment. Part 2, "Examples" on page 55 uses examples to illustrate how to exploit the features of OSGi applications and JPA 2.0.

This important text provides a single point of reference for state-of-the-art cloud computing design and

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implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains

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contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and

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technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings.

Smart Technologies, Systems and

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Applications

Developing Enterprise Java Components

Kubernetes in Action

Enterprise Java Microservices

*Practical recipes for enterprise Java
developers to deliver large scale
applications with Jakarta EE, 2nd*

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*Getting Started with the Feature Pack for
OSGi Applications and JPA 2.0*

***Operators are a way of packaging,
deploying, and managing***

Kubernetes applications. A

Kubernetes application doesn't just

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run on Kubernetes; it's composed and managed in Kubernetes terms. Operators add application-specific operational knowledge to a Kubernetes cluster, making it easier to automate complex, stateful applications and to augment the

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platform. Operators can coordinate application upgrades seamlessly, react to failures automatically, and streamline repetitive maintenance like backups. Think of Operators as site reliability engineers in software. They work by extending

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the Kubernetes control plane and API, helping systems integrators, cluster administrators, and application developers reliably deploy and manage key services and components. Using real-world examples, authors Jason Dobies and

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Joshua Wood demonstrate how to use Operators today and how to create Operators for your applications with the Operator Framework and SDK. Learn how to establish a Kubernetes cluster and deploy an Operator Examine a

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range of Operators from usage to implementation Explore the three pillars of the Operator Framework: the Operator SDK, the Operator Lifecycle Manager, and Operator Metering Build Operators from the ground up using the Operator SDK

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Build, package, and run an Operator in development, testing, and production phases Learn how to distribute your Operator for installation on Kubernetes clusters If you're interested in JRuby, you probably don't need a tutorial on

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Ruby, Rails, or Java -- you just need to know how to get things done. This Cookbook offers practical solutions for using the Java implementation of the Ruby language, with targeted recipes for deploying Rails web applications on

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Java servers, integrating JRuby code with Java technologies, developing JRuby desktop applications with Java toolkits, and more. Using numerous reusable code samples, JRuby Cookbook shows you how to: Install and

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update JRuby on Windows, Mac OS X, and Linux, and IDEs such as NetBeans and Eclipse Package and deploy Rails apps on Java Servlet containers and Java EE application servers, including JBoss, Tomcat, and GlassFish Integrate Ruby and

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*Rails applications with popular
Java EE technologies such as JMS,
JMX, JPA, Spring, and Hibernate
Develop desktop and client
applications with cross-platform
Java UI technologies and toolkits
such as Swing, SWT, and Java 2D*

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Maximize the flexibility of your testing and build environment, using both existing Java-based tools such as Ant and Maven and newer Ruby-based tools such as Rake, Raven, and Buildr The JRuby interpreter combines Ruby's

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*simplicity and ease of use with
Java's extensive libraries and
technologies, a potent blend that
opens new possibilities for Ruby,
Rails, and Java. This Cookbook
helps you take full advantage of
JRuby's potential. "The JRuby*

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Cookbook is an excellent book for any polyglot who is trying to bridge the gap between Java and Ruby. It provides solutions to specific problems developers face in both their development and testing environments, along with the

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applications they're building."--

*Bob McWhirter, Research &
Prototyping, Red Hat Middleware
Annotation JBoss AS is the most
used Java application server on the
market meeting high standards of
reliability, efficiency, and*

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robustness and is used to build powerful and secure Java EE applications. It supports the most important areas of Java Enterprise programming including EJB 3.0, dependency injection, web services, the security framework, and more.

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*Getting started with JBoss
application server development can
be challenging; however, with the
right approach and guidance, you
can easily master it and this book
promises that. Written in an easy-to-
read style, this book will take you*

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*from the basics of JBoss AS_such
as installing core components and
plug-ins_to the skills that will make
you a JBoss developer to be
reckoned with, covering advanced
topics such as developing
applications with JBoss Messaging*

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*service, JBoss web services,
clustered applications, and more.
You will learn the necessary steps to
install a suitable environment for
developing enterprise applications
on JBoss AS. Then, your journey
will continue through the heart of*

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the application server, explaining how to customize each service for optimal usage. You will learn how to design Enterprise applications using Eclipse and JBoss plug-ins. You will then learn how to enable distributed communication using

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JMS. Storing and retrieving objects will be made easier using Hibernate. The core section of the book will take you into the programming arena with tested, real-world examples. The example programs have been carefully

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*crafted to be easy to understand
and useful as starting points for
your applications. This book will
kick-start your productivity and
help you to master JBoss AS
development. The author's
experience with JBoss enables him*

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to share insights on JBoss AS development, in a clear and friendly way. By the end of the book, you will have the confidence to apply all the newest programming techniques to your JBoss applications.

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Keen to build web applications for the cloud? Get a quick hands-on introduction to OpenShift, the open source Platform as a Service (PaaS) offering from Red Hat. With this practical guide, you'll learn the steps necessary to build, deploy, and

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host a complete real-world application on OpenShift without having to slog through long, detailed explanations of the technologies involved. OpenShift enables you to use Docker application containers and the

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Kubernetes cluster manager to automate the way you create, ship, and run applications. Through the course of the book, you'll learn how to use OpenShift and the Wildfly application server to build and then immediately deploy a Java

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*application online. Learn about
OpenShift's core technology,
including Docker-based containers
and Kubernetes Use a virtual
machine with OpenShift installed
and configured on your local
environment Create and deploy your*

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*first application on the OpenShift
platform Add language runtime
dependencies and connect to a
database Trigger an automatic
rebuild and redeployment when you
push changes to the repository Get a
working environment up in minutes*

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*with application templates Use
commands to check and debug your
application Create and build
Docker-based images for your
application*

*Second International Conference,
SmartTech-IC 2021, Quito,*

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Ecuador, December 1–3, 2021,

Revised Selected Papers

*Digital Java EE 7 Web Application
Development*

Jboss Weld CDI for Java Platform

Fedora 11 and Red Hat Enterprise

Linux Bible

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*Continuous Enterprise Development
in Java*

*DevOps Culture and Practice with
OpenShift*

*This book constitutes refereed
proceedings of the Second
International Conference on*

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*Smart Technologies, Systems
and Applications, held in Quito,
Ecuador, in December 2021.*

*Due to the COVID-19 pandemic
the conference was held in a
hybrid format. The 29 full
papers along with 1 short paper*

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presented were carefully reviewed and selected from 104 submissions. The papers of this volume are organized in topical sections on smart technologies; smart systems; smart trends and applications.

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Enterprise and web applications require full-featured, "Google-quality" search capabilities, but such features are notoriously difficult to implement and maintain. Hibernate Search builds on the Lucene feature set

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and offers an easy-to-implement interface that integrates seamlessly with Hibernate-the leading data persistence solution for Java applications. Hibernate Search in Action introduces both the principles of enterprise

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search and the implementation details a Java developer will need to use HibernateSearch effectively. This book blends the insights of the Hibernate Search lead developer with the practical techniques required to index

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and manipulate data, assemble and execute search queries, and create smart filters for better search results. Along the way, the reader masters performance-boosting concepts like using Hibernate Search in a clustered

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environment and integrating with the features already in your applications. This book assumes you're a competent Java developer with some experience using Hibernate and Lucene. Purchase of the print

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book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Do you have secure application development standards and

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testing criteria? What should the development team do? When is an Enterprise Architecture Good Enough ? What is the tool chain you need to tie your application deployment to your infrastructure provisioning?

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What are the agents or scripts executing on servers of hosted applications? This valuable Camel Development with Red Hat JBoss Fuse self-assessment will make you the accepted Camel Development with Red

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*Hat JBoss Fuse domain
specialist by revealing just what
you need to know to be fluent
and ready for any Camel
Development with Red Hat
JBoss Fuse challenge. How do I
reduce the effort in the Camel*

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*Development with Red Hat
JBoss Fuse work to be done to
get problems solved? How can I
ensure that plans of action
include every Camel
Development with Red Hat
JBoss Fuse task and that every*

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Camel Development with Red Hat JBoss Fuse outcome is in place? How will I save time investigating strategic and tactical options and ensuring Camel Development with Red Hat JBoss Fuse costs are low?

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How can I deliver tailored Camel Development with Red Hat JBoss Fuse advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling

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author Gerard Blokdyk. Blokdyk ensures all Camel Development with Red Hat JBoss Fuse essentials are covered, from every angle: the Camel Development with Red Hat JBoss Fuse self-assessment

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*shows succinctly and clearly
that what needs to be clarified
to organize the required
activities and processes so that
Camel Development with Red
Hat JBoss Fuse outcomes are
achieved. Contains extensive*

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criteria grounded in past and current successful projects and activities by experienced Camel Development with Red Hat JBoss Fuse practitioners. Their mastery, combined with the easy elegance of the self-

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assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Camel Development with Red Hat JBoss Fuse are maximized with professional results. Your

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*results generation - In-depth
and specific Camel*

Development with Red Hat

*JBoss Fuse Checklists - Project
management checklists and*

templates to assist with

implementation INCLUDES

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most accurate information at
your fingertips.*

*Build your own enterprise
applications and integration
flows with JBoss and its*

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products About This Book Build fast, smart, and flexible applications using JBoss* Couple one or more JBoss products to effectively solve various business problems* Explore the JBoss product ecosystem for*

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*improving the performance of
your projects Who This Book Is
For If you are a Java developer
who wants to have a complete
view of the JBoss ecosystem or
quickly explore a specific JBoss
Product, then this is the book*

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you want. Integrators and consultants, familiar with JBoss, who want integrate several JBoss products within their ongoing project will also find this book useful. What You Will Learn Create new applications*

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*or integrate existing systems
with JBoss products* Setup and
manage a JBoss domain* Setup
and manage a JBoss Fuse
cluster with Fabric and Apache
Karaf* Create and deploy OSGi
applications on JBoss Fuse*

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containers Manage enterprise data with JBoss Datagrid**

*Aggregate various data sources with JBoss Data virtualization to offer data as a service**

Optimize your business and workflows with both JBoss

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Business Rules Management System and JBoss Business Process Management platforms. In Detail Have you often wondered what is the best JBoss product to solve a specific problem? Do you want to get

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started with a specific JBoss product and know how to integrate different JBoss products in your IT Systems? Then this is the book for you. Through hands-on examples from the business

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world, this guide presents details on the major products and how you can build your own Enterprise services around the JBoss ecosystem. Starting with an introduction to the JBoss ecosystem, you will gradually

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*move on to developing and
deploying clustered application
on JBoss Application Server, and
setting up high availability using
undertow or HA proxy
loadbalancers.As you are
moving to a micro service*

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architecture, you will be taught how to package existing Java EE applications as micro service using Swarm or create your new micro services from scratch by coupling most popular Java EE frameworks like JPA, CDI with

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Undertow handlers. Next, you will install and configure JBoss Data grid in development and production environments, develop cache based applications and aggregate various data source in JBoss

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data virtualization. You will learn to build, deploy, and monitor integration scenarios using JBoss Fuse and run both producers/consumers applications relying on JBoss AMQ. Finally, you will learn to

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develop and run business workflows and make better decisions in your applications using Drools and Jboss BPM Suite Platform. Style and Approach
The book works through the major JBoss

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*products, with examples and
instructions to help you
understand each product and
how they work together.*

Quarkus Cookbook

Deploying to OpenShift

Enterprise JavaBeans 3.1

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ActiveMQ in Action

Camel Development With Red

Hat JBoss Fuse A Complete

Guide - 2020 Edition

Kubernetes Patterns

**An easy-to-follow guide full of hands-on
examples of real-world administration**

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tasks. JBoss EAP6 High Availability is ideal for those who want to learn how to use JBoss EAP6 to set up a cluster. Basic knowledge of Linux/Unix is required.

If you are a system administrator who is interested in implementing and managing open source virtualization

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infrastructures, this is the book for you. A basic knowledge of virtualization and basic Linux command line experience is needed.

Cybersecurity is the most important arm of defense against cyberattacks. With the recent increase in cyberattacks, corporations must focus

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on how they are combating these new high-tech threats. When establishing best practices, a corporation must focus on employees' access to specific workspaces and information. IBM Z® focuses on allowing high processing virtual environments while maintaining a high level of security in each

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workspace. Organizations not only need to adjust their approach to security, but also their approach to IT environments. To meet new customer needs and expectations, organizations must take a more agile approach to their business. IBM® Z allows companies to work with hybrid and multi-cloud environments

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that allows more ease of use for the user and efficiency overall. Working with IBM Z, organizations can also work with many databases that are included in IBM Cloud Pak® for Data. IBM Cloud Pak for Data allows organizations to make more informed decisions with improved data usage.

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Along with the improved data usage, organizations can see the effects from working in a Red Hat OpenShift environment. Red Hat OpenShift is compatible across many hardware services and allows the user to run applications in the most efficient manner. The purpose of this IBM

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Redbooks® publication is to: Introduce IBM Z and LinuxONE platforms and how they work with the Red Hat OpenShift environment and IBM Cloud Pak for Data Provide examples and the uses of IBM Z with Cloud Paks for Data that show data gravity, consistent development experience, and

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consolidation and business resiliency

The target audience for this book is

IBM Z Technical Specialists, IT

Architects, and System Administrators.

This book will kick-start your

productivity and help you to master

JBoss AS development. The author's

experience with JBoss enables him to

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share insights on JBoss AS development in a clear and friendly way. By the end of the book, you will have the confidence to apply all the newest programming techniques to your JBoss applications. If you are a Java architect or developer who wants to get the most out of the latest release of the JBoss

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application server, then this book is for you. You are not expected to have accumulated experience on the application server though you must know the basic concepts of Java EE. The Linux Development Platform Automating the Container Orchestration Platform

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A Guide for Impatient Beginners

WildFly Cookbook

Jakarta EE Cookbook

**Configuring the JBoss Application
Server**

*This IBM® Redbooks® publication
provides a documented deployment model
for IBM GPFSTM in a cross-platform*

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environment with IBM Power Systems™, Linux, and Windows servers. With IBM GPFS, customers can have a planned foundation for file systems management for cross-platform access solutions. This book examines the functional, integration, simplification, and usability changes with GPFS v3.4. It can help the technical teams

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provide file system management solutions and technical support with GPFS, based on Power Systems virtualized environments for cross-platform file systems management. The book provides answers to your complex file systems management requirements, helps you maximize file system availability, and

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provides expert-level documentation to transfer the how-to skills to the worldwide support teams. The audience for this book is the technical professional (IT consultants, technical support staff, IT architects, and IT specialists) who is responsible for providing file system management solutions and support for

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*cross-platform environments that are
based primarily on Power Systems.*

*eBook: Object-Oriented Systems Analysis
4e*

*The way developers design, build, and run
software has changed significantly with
the evolution of microservices and
containers. These modern architectures*

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use new primitives that require a different set of practices than most developers, tech leads, and architects are accustomed to.

With this focused guide, Bilgin Ibryam and Roland Huß from Red Hat provide common reusable elements, patterns, principles, and practices for designing and implementing cloud-native applications on

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Kubernetes. Each pattern includes a description of the problem and a proposed solution with Kubernetes specifics. Many patterns are also backed by concrete code examples. This book is ideal for developers already familiar with basic Kubernetes concepts who want to learn common cloud native patterns. You'll

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learn about the following pattern categories: Foundational patterns cover the core principles and practices for building container-based cloud-native applications. Behavioral patterns explore finer-grained concepts for managing various types of container and platform interactions. Structural patterns help you

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organize containers within a pod, the atom of the Kubernetes platform. Configuration patterns provide insight into how application configurations can be handled in Kubernetes. Advanced patterns covers more advanced topics such as extending the platform with operators.

Summary Kubernetes in Action is a

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comprehensive guide to effectively developing and running applications in a Kubernetes environment. Before diving into Kubernetes, the book gives an overview of container technologies like Docker, including how to build containers, so that even readers who haven't used these technologies before can get up and

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running. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Kubernetes is Greek for "helmsman," your guide through unknown waters. The Kubernetes container orchestration system safely manages the structure and flow of a

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distributed application, organizing containers and services for maximum efficiency. Kubernetes serves as an operating system for your clusters, eliminating the need to factor the underlying network and server infrastructure into your designs. About the Book Kubernetes in Action teaches you to

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use Kubernetes to deploy container-based distributed applications. You'll start with an overview of Docker and Kubernetes before building your first Kubernetes cluster. You'll gradually expand your initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you

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navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling. What's Inside Kubernetes' internals Deploying containers across a cluster Securing clusters Updating applications with zero downtime About the Reader Written for intermediate software developers with

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little or no familiarity with Docker or container orchestration systems. About the Author Marko Luksa is an engineer at Red Hat working on Kubernetes and OpenShift. Table of Contents PART 1 - OVERVIEW Introducing Kubernetes First steps with Docker and Kubernetes PART 2 - CORE CONCEPTS Pods: running

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using Java EE's JAX-RS
framework Implement OAuth
authentication with JBoss's
PicketLink identity management
service Validate the UI by
automating interaction in the*

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browser and reading the rendered page Perform full-scale integration testing on the final deployable archive

JBoss in Action is the first book to focus on teaching readers in detail how to use the JBoss

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application server. Unlike other titles about JBoss, the authors of JBoss in Action go deeper into the advanced features and configuration of the server. In particular, it focuses on enterprise-class topics, such as

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high availability, security, and performance. This book walks readers through the JBoss 5 Application Server from installation to configuration to production development. It shows how to configure the server's

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various component containers such as the JBoss Web Server, the EJB 3 server, and JBoss Messaging. It also provides detailed insight into configuring the various component services such as security, performance,

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and clustering. Beyond coverage of the core application server, the book also teaches how to use some of the "hot" technologies that run on top of the application server, such as Jboss Seam and JBoss Portal. Purchase of the

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*the wide coverage provided in
this book surpass any other
content currently available in any
other book, article, or
documentation on the subject.
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a distributed database system. It is unique because it covers traditional database theory and current research, explaining the difficulties in providing a unified user interface and global data dictionary. The book gives

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implementers guidance on hiding discrepancies across systems and creating the illusion of a single repository for users. It also includes three sample frameworks—implemented using J2SE with JMS, J2EE, and

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Microsoft .Net—that readers can use to learn how to implement a distributed database management system. IT and development groups and computer sciences/software engineering graduates will find

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this guide invaluable.